

Job No.: SCE/BBMP/RL/17/2021-2022

29.05.2021

**DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX  
OF COARSE AGGREGATES**

|                 |                                                                                                                                                                                |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Client          | : Executive Engineer, RR Nagar Division, BBMP, Bangalore.                                                                                                                      |
| Agency          | : Sri. R Lokesh, Contractor, Bangalore.                                                                                                                                        |
| Name of Work    | Comprehensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09) |
| BIS code:       | IS 2386(Part 1) 1963 (RA 2011)                                                                                                                                                 |
| Type of Mix     | Wet Mix Macadam                                                                                                                                                                |
| Date of Testing | 29.05.2021                                                                                                                                                                     |

| Sl no | Test                                  | 1     | 2    | Requirements as per MORTH 5th edition table no 400.12 |
|-------|---------------------------------------|-------|------|-------------------------------------------------------|
| 1     | Flakiness Index %                     | 9.5   | 13.8 | Combined Flakiness & Elongation index Max 35%         |
| 2     | Elongation Index %                    | 12.3  | 14.1 |                                                       |
|       | Combined Flakiness & Elongation index | 21.80 | 27.9 |                                                       |

**Note:**

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*[Handwritten Signature]*

ಸಹಾಯಕ ನಿರ್ದೇಶಕರ ಕಛೇರಿ  
ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ  
ಶೃವತ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

**For SAPIENCE CONSULTANTS**

*[Handwritten Signature]*  
Authorised Signatory

Job No.: SCE/BBMP/RL/17/2021-2022

29.05.2021

**DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX  
OF COARSE AGGREGATES**

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| Agency          | : Sri. R Lokesh, Contractor, Bangalore.                                                                                                                                        |
| Name of Work    | Comprehensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09) |
| BIS code:       | IS 2386(Part 1) 1963 (RA 2011)                                                                                                                                                 |
| Type of Mix     | Wet Mix Macadam                                                                                                                                                                |
| Date of Testing | 29.05.2021                                                                                                                                                                     |

| Sl no | Test                                  | 1     | 2    | Requirements as per MORTH 5th edition table no 400.12 |
|-------|---------------------------------------|-------|------|-------------------------------------------------------|
| 1     | Flakiness Index %                     | 14.0  | 13.0 | Combined Flakiness & Elongation index Max 35%         |
| 2     | Elongation Index %                    | 12.0  | 11.0 |                                                       |
|       | Combined Flakiness & Elongation index | 26.00 | 24.0 |                                                       |

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| Agency          | : Sri. R Lokesh, Contractor, Bangalore.                                                                                                                                        |
| Name of Work    | Comprehensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09) |
| BIS code:       | IS 2386(Part 1) 1963 (RA 2011)                                                                                                                                                 |
| Type of Mix     | Wet Mix Macadam                                                                                                                                                                |
| Date of Testing | 29.05.2021                                                                                                                                                                     |

| Sl no | Test                                  | 1     | 2     | Requirements as per MORTH 5th edition table no 400.12 |
|-------|---------------------------------------|-------|-------|-------------------------------------------------------|
| 1     | Flakiness Index %                     | 12.8  | 109.0 | Combined Flakiness & Elongation index Max 35%         |
| 2     | Elongation Index %                    | 13.2  | 14.6  |                                                       |
|       | Combined Flakiness & Elongation index | 26.00 | 123.6 |                                                       |

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| BIS code:       | IS 2386(Part 1) 1963 (RA 2011)                                                                                                                                                 |
| Type of Mix     | Wet Mix Macadam                                                                                                                                                                |
| Date of Testing | 29.05.2021                                                                                                                                                                     |

| Sl no | Test                                     | 1     | 2    | Requirements as per<br>MORTH 5th edition table<br>no 400.12 |
|-------|------------------------------------------|-------|------|-------------------------------------------------------------|
| 1     | Flakiness Index %                        | 9.2   | 13.4 | Combined Flakiness &<br>Elongation index Max 35%            |
| 2     | Elongation Index %                       | 12.3  | 11.6 |                                                             |
|       | Combined Flakiness<br>& Elongation index | 21.50 | 25.0 |                                                             |

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Date 31.05.2021

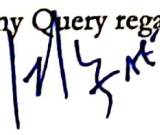
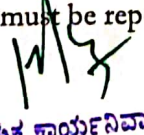
**ATTERBERG LIMITS TEST FOR WMM**

**Client** : Executive Engineer, RR Nagar Division, BBMP, Bangalore.  
**Agency** : Sri. R Lokesh, Contractor, Bangalore.  
**Name of Work** : Comprehensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)  
**IS Code:** IS 2720(Part 5):1985  
**Date of Testing** 29.05.2021 to 31.05.2021  
**Material Type** : Wet Mix Macadam

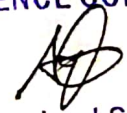
| SL No. | Particulars         | Test Results | Requirement as per MORTH 5th edition Cl.406.2.1.2 |
|--------|---------------------|--------------|---------------------------------------------------|
| 1      | Liquid Limit        | 21.00        | -                                                 |
| 2      | Plasticity Index, % | Non Plastic  | 6.0% Maximum.                                     |

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ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ  
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**IS Code:** IS 2720(Part 5):1985  
**Date of Testing** 29.05.2021 to 31.05.2021  
**Material Type** : Wet Mix Macadam

| Sl No. | Particulars         | Test Results | Requirement as per MORTH 5th edition Cl.406.2.1.2 |
|--------|---------------------|--------------|---------------------------------------------------|
| 1      | Liquid Limit        | 22.00        | -                                                 |
| 2      | Plasticity Index, % | Non Plastic  | 6.0% Maximum.                                     |

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**IS Code:** IS 2720(Part 5):1985  
**Date of Testing** 29.05.2021 to 31.05.2021  
**Material Type** : Wet Mix Macadam

| Sl. No. | Particulars         | Test Results | Requirement as per MORTH 5th edition Cl.406.2.1.2 |
|---------|---------------------|--------------|---------------------------------------------------|
| 1       | Liquid Limit        | 23.50        | -                                                 |
| 2       | Plasticity Index, % | Non Plastic  | 6.0% Maximum.                                     |

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*[Signature]*

*[Signature]*  
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Date 31.05.2021

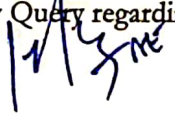
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2019-20 RRN-DIV-(09)  
**IS Code:** IS 2720(Part 5):1985  
**Date of Testing** 29.05.2021 to 31.05.2021  
**Material Type** : Wet Mix Macadam

| Sl. No. | Particulars         | Test Results | Requirement as per MORTH 5th edition Cl.406.2.1.2 |
|---------|---------------------|--------------|---------------------------------------------------|
| 1       | Liquid Limit        | 21.50        | -                                                 |
| 2       | Plasticity Index, % | Non Plastic  | 6.0% Maximum.                                     |

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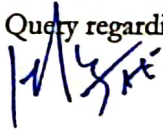
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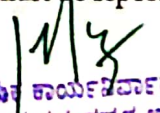
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**IS Code:** IS 2720(Part 5):1985  
**Date of Testing** 29.05.2021 to 31.05.2021  
**Material Type** : Wet Mix Macadam

| SL No. | Particulars         | Test Results | Requirement as per MORTH 5th edition CI.406.2.1.2 |
|--------|---------------------|--------------|---------------------------------------------------|
| 1      | Liquid Limit        | 24.00        | -                                                 |
| 2      | Plasticity Index, % | Non Plastic  | 6.0% Maximum.                                     |

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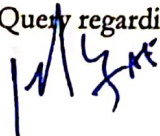
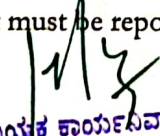
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**IS Code:** IS 2720(Part 5):1985  
**Date of Testing** 29.05.2021 to 31.05.2021  
**Material Type** : Wet Mix Macadam

| SL No. | Particulars         | Test Results | Requirement as per MORTH 5th edition Cl.406.2.1.2 |
|--------|---------------------|--------------|---------------------------------------------------|
| 1      | Liquid Limit        | 21.00        | -                                                 |
| 2      | Plasticity Index, % | Non Plastic  | 6.0% Maximum.                                     |

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**Material Type** : Wet Mix Macadam

| SL No. | Particulars         | Test Results | Requirement as per MORTH 5th edition Cl.406.2.1.2 |
|--------|---------------------|--------------|---------------------------------------------------|
| 1      | Liquid Limit        | 23.00        | -                                                 |
| 2      | Plasticity Index, % | Non Plastic  | 6.0% Maximum.                                     |

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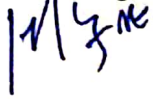
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**IS Code:** IS 2720(Part 5):1985  
**Date of Testing** 29.05.2021 to 31.05.2021  
**Material Type** : Wet Mix Macadam

| Sl. No. | Particulars         | Test Results | Requirement as per MORTH 5th edition Cl.406.2.1.2 |
|---------|---------------------|--------------|---------------------------------------------------|
| 1       | Liquid Limit        | 22.00        | -                                                 |
| 2       | Plasticity Index, % | Non Plastic  | 6.0% Maximum.                                     |

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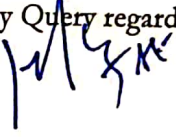
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**Material Type** : Wet Mix Macadam

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|---------|---------------------|--------------|---------------------------------------------------|
| 1       | Liquid Limit        | 23.50        | -                                                 |
| 2       | Plasticity Index, % | Non Plastic  | 6.0% Maximum.                                     |

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SCE/BBMP/RL/17/2021-2022

Date 31.05.2021

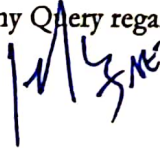
**ATTERBERG LIMITS TEST FOR WMM**

**Client** : Executive Engineer, RR Nagar Division, BBMP, Bangalore.  
**Agency** : Sri. R Lokesh, Contractor, Bangalore.  
**Name of Work** : Comprehensive development of roads and drains in Muthyalanagara, LC-4A,  
Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-  
2019-20 RRN-DIV-(09)  
**IS Code:** IS 2720(Part 5):1985  
**Date of Testing** 29.05.2021 to 31.05.2021  
**Material Type** : Wet Mix Macadam

| Sl. No. | Particulars         | Test Results | Requirement as per MORTH 5th edition Cl.406.2.1.2 |
|---------|---------------------|--------------|---------------------------------------------------|
| 1       | Liquid Limit        | 21.50        | -                                                 |
| 2       | Plasticity Index, % | Non Plastic  | 6.0% Maximum.                                     |

**Note:**

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.



ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು  
ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ  
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

**For SAPIENCE CONSULTANTS**

  
Authorised Signatory



**sapience**  
Consultants and Engineers  
(Building, Geo-Tech & Road Materials Testing Laboratory)

#B9-003, GANGA, Jnanabharathi Enclave,  
Valagerahalli, Mysore Road, Bangalore.  
Ph: 9448853634, 8762194386  
Email: sapiencebangalore@gmail.com

Job No.:

SCE/BBMP/RL/17/2021-2022

Date 31.05.2021

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**IS Code:** IS 2720(Part 5):1985  
**Date of Testing** 29.05.2021 to 31.05.2021  
**Material Type** : Wet Mix Macadam

| SL No. | Particulars         | Test Results | Requirement as per MORTH 5th edition Cl.406.2.1.2 |
|--------|---------------------|--------------|---------------------------------------------------|
| 1      | Liquid Limit        | 22.00        | -                                                 |
| 2      | Plasticity Index, % | Non Plastic  | 6.0% Maximum.                                     |

**Note:**

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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು  
ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ  
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For SAPIENCE CONSULTANTS

*[Handwritten signature]*

Authorised Signatory